

IN THE CLAIMS

1. (Original) A method for performing subscriber loop testing in an optical network, comprising:
receiving a request to initiate a loop test;
identifying a customer gateway to which test commands are to be sent;
transmitting test commands toward the identified customer gateway to perform a subscriber loop test;
performing a channel test on an optical fiber link to the customer gateway;
requesting results of the subscriber loop test;
receiving the results of the subscriber loop test;
providing results from the channel test and the subscriber loop test to a test system controller.

2. (Original) The method of Claim 1, wherein the request is received through Signaling Network Management Protocol (SNMP) messages.

3. (Original) The method of Claim 2, further comprising:
converting the request into test commands;
placing the test commands in SNMP messages;
transmitting the SNMP messages containing the test commands to the customer gateway over a Local loop Emulation Service Embedded Operations Channel (LES-EOC).

4. (Original) The method of Claim 2, wherein the results are provided through SNMP messages.

5. (Original) The method of Claim 4, further comprising:
receiving the results of the subscriber loop test over a
Local loop Emulation Service Embedded Operations Channel (LES-
EOC);

converting the results of the subscriber loop test into
SNMP messages.

6. (Original) The method of Claim 1, wherein test
commands are transmitted to the customer gateway over a Local
loop Emulation Service Embedded Operations Channel (LES-EOC)
path.

7. (Original) The method of Claim 6, wherein the results
of the subscriber loop test are received over the LES-EOC
path.

8. (Original) A system for performing subscriber loop
testing in an optical network, comprising:

means for receiving a request to initiate a loop test;

means for identifying a customer gateway to which test
commands are to be sent;

means for transmitting test commands toward the
identified customer gateway to perform a subscriber loop test;

means for performing a channel test on an optical fiber
link to the customer gateway;

means for requesting results of the subscriber loop test;

means for receiving the results of the subscriber loop
test;

means for providing results from the channel test and the
subscriber loop test to a test system controller.

9. (Original) The system of Claim 8, wherein the request is received through Signaling Network Management Protocol (SNMP) messages.

10. (Original) The system of Claim 9, further comprising:

means for converting the request into test commands;
means for placing the test commands in SNMP messages;
means for transmitting the SNMP messages containing the test commands to the customer gateway over a Local loop Emulation Service Embedded Operations Channel (LES-EOC).

11. (Original) The system of Claim 9, wherein the results are provided through SNMP messages.

12. (Original) The system of Claim 11, further comprising:

receiving the results of the subscriber loop test over a Local loop Emulation Service Embedded Operations Channel (LES-EOC);

converting the results of the subscriber loop test into SNMP messages.

13. (Original) The system of Claim 8, wherein test commands are transmitted to the customer gateway over a Local loop Emulation Service Embedded Operations Channel (LES-EOC) path.

14. (Original) The system of Claim 13, wherein the results of the subscriber loop test are received over the LES-EOC path.

15. (Canceled) .

16. (Canceled) .

17. (Canceled) .

18. (Canceled) .

19. (Canceled) .

20. (Canceled) .

Please cancel Claims 15-20 as indicated above without
prejudice or disclaimer.